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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/051,319	01/18/2002	Markus Kraus	TRG-301 8008	
7590 11/21/2003			EXAMINER	
Lorusso & Loud			CUEVAS, PEDRO J	
440 Commercial Street			ART UNIT	PAPER NUMBER
Boston, MA 0	2109		2834	
			2834 DATE MAILED: 11/21/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

• 1						
		Application No.	Applicant(s)			
Office Action Summary		10/051,319	KRAUS ET AL.			
		Examiner	Art Unit			
		Pedro J. Cuevas	2834			
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply						
THE MAILING DATE OF Extensions of time may be available sIX (6) MONTHS from the If the period for reply specified a If NO period for reply is specifie Failure to reply within the set or	F THIS COMMUNICATION. lable under the provisions of 37 CFR 1.1 mailing date of this communication. above is less than thirty (30) days, a replete above, the maximum statutory period restended period for reply will, by statute a later than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH: 36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE g date of this communication, even if timely filed	mely filed /s will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to co	ommunication(s) filed on 17.	July 2003 .				
2a) This action is FIN	IAL. 2b)⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
·	are pending in the application	ו				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	•	•				
9)⊠ The specification is	s objected to by the Examine	er.				
10) \boxtimes The drawing(s) filed on <u>18 January 2002</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§	§ 119 and 120					
13) Acknowledgment	is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)☐ All b)☐ Some	e * c)⊠ None of:					
 1. ☐ Certified co 	pies of the priority document	ts have been received.				
2. Certified co	pies of the priority document	ts have been received in Applicat	ion No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
		ovisional application has been re- tic priority under 35 U.S.C. §§ 12				
Attachment(s)						
1) Notice of References Cited (2) Notice of Draftsperson's Pat 3) Information Disclosure State	•	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on June 13, 2003 was filed before the mailing date of the Non-Final Office Action on June 17, 2003. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 and 5-15 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 1022 450 A2 to Woon et al.

Woon et al. clearly teaches the construction of an electric power generation system and a method of generating electric power having a multi-cylinder internal combustion engine, a mechanical or hydraulic clutch coupling to the generator and a control device which:

selectively disconnects/reconnects one or more cylinders during operation according to at least one control signal;

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determines the number of cylinders to be disconnected according to the amplitude or the chronology of the load change;

electrically or mechanically measures the load change at the generator and triggers a control signal for the cylinder disconnection;

prevents explosions upon cylinder disconnection;

determines both, the number of cylinders to be disconnected according to the amplitude or the chronology of the load change, and the chronology of the disconnection according to the amplitude and/or the chronology of the load change; and

characterized in that:

the control signal, measured at the generator or at the internal combustion engine for cylinder disconnection/reconnection, depends on the load at the generator;

cylinder disconnection takes place at at least one cylinder by disconnecting the respective firing mechanism; and

the reconnection of the disconnected cylinders after a certain period of time has elapsed.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1022 450 A2 to Woon et al. in view of U.S. Patent No. 4,310,770 to Keener et al.

Woon et al. disclose the construction of an electric power generation system as described above.

However, it fails to disclose a generator switch for coupling and uncoupling the generator respectively to and from at least one consumer.

Keener et al. teach the construction of a demand load control having relay switches (18-25) for the purpose of coupling and uncoupling the generator respectively to and from at least one load on a predetermined priority.

It would have been obvious to one skilled in the art at the time the invention was made to use the demand load control disclosed by Keener et al., which are capable of generating signals for the cylinder disconnection of the fuel conservation system for multi-cylinder internal combustion gas engines, on the electric power generation system disclosed by Woon et al. for the purpose of coupling and uncoupling the generator respectively to and from at least one load on a predetermined priority.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas November 5, 2003 BURTON S. MULLINS PRIMARY EXAMINER

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